

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A filtering system having a stationary probe for coupling two resonators comprising

an iris having the stationary probe disposed therein fixedly coupled between the two resonators; and

the stationary probe having a transverse opening for receiving a moveable tuning conductor,

wherein the moveable tuning conductor provides adjustable coupling between the two resonators.

2. (Original) The system of claim 1 wherein

the tuning conductor is grounded at one end and provides a capacitive coupling to ground between the two resonators.

3. (Original) The system of claim 1 wherein

the tuning conductor is transversely oriented to the probe, and

fixedly movable in the transverse opening of the probe to provide an adjustable capacitance between the two resonators.

4. (Currently Amended) The system of claim 1 wherein

the tuning conductor is a center conductor of a ~~coax~~ coaxial line.

5. (Currently Amended) The system of claim 4 wherein

the ~~coax~~ coaxial line includes an outer dielectric sleeve, a ~~coax~~ coaxial shell, and a shrink tubing, each surrounding the tuning conductor.

6. (Original) The system of claim 1 wherein

the tuning conductor is electrically insulated from the probe by a dielectric material.

7. (Original) The system of claim 1 wherein

the tuning conductor is inserted in a transverse opening in a septum separating the two resonators, and

the transverse opening of the septum is aligned to the transverse opening of the probe.

8. (Currently Amended) The system of claim 1 wherein

the tuning conductor is surrounded by a ~~coax~~-coaxial shell, the ~~coax~~-coaxial shell electrically connected to the probe, and

the probe is electrically insulated from the tuning conductor.

9. (Currently Amended) The system of claim 1 wherein

each of the two resonators includes a corresponding resonating rod disposed in a respective waveguide section.

10. (Currently Amended) The system of claim 1 wherein

each of the two resonators includes a respective waveguide cavity.

11. (Currently Amended) The system of claim 1 wherein

each of the two resonators includes a respective dielectric resonator.

12. (Original) The system of claim 1 wherein

the tuning conductor is adjustably fixed with respect to the probe by a set screw.

13. (Original) The system of claim 1 wherein

the probe includes an end disposed in one of the two resonators, and

the end of the probe and the one resonator form a capacitor.

14. (Original) The system of claim 1 wherein

the probe includes an end disposed in one of the two resonators, and

the end of the probe is coupled to a ground potential by a wire loop, the wire loop forming a coil.

15. (Currently Amended) A filtering system having a plurality of resonators comprising

at least one stationary probe fixedly extending between two resonators of the plurality of resonators, and

a moveable tuning conductor transversely oriented to the stationary probe,

wherein the moveable tuning conductor provides adjustable coupling between the two resonators.

16. (Original) The system of claim 15 wherein

the tuning conductor is grounded at one end and provides a variable capacitance to ground between the two resonators.

17. (Original) The system of claim 15 wherein

the tuning conductor is received in a transverse opening of the probe, and

the tuning conductor is electrically insulated from the probe.

18. (Original) The system of claim 15 wherein

the two resonators are separated by a septum, and

the septum includes an iris for supporting the probe between the two resonators.

19. (Currently Amended) The system of claim 15 wherein

each of the two resonators includes a corresponding resonating rod disposed in a respective waveguide section.

20. (Currently Amended) The system of claim 15 wherein

each of the two resonators includes a corresponding dielectric resonator disposed in a respective resonating cavity.

21. (Currently Amended) The system of claim 15 wherein

each of the two resonators includes a respective resonating cavity.